OIPE IAP85 MAR 23 2007 PATENT & TRADEMARK OFFICE

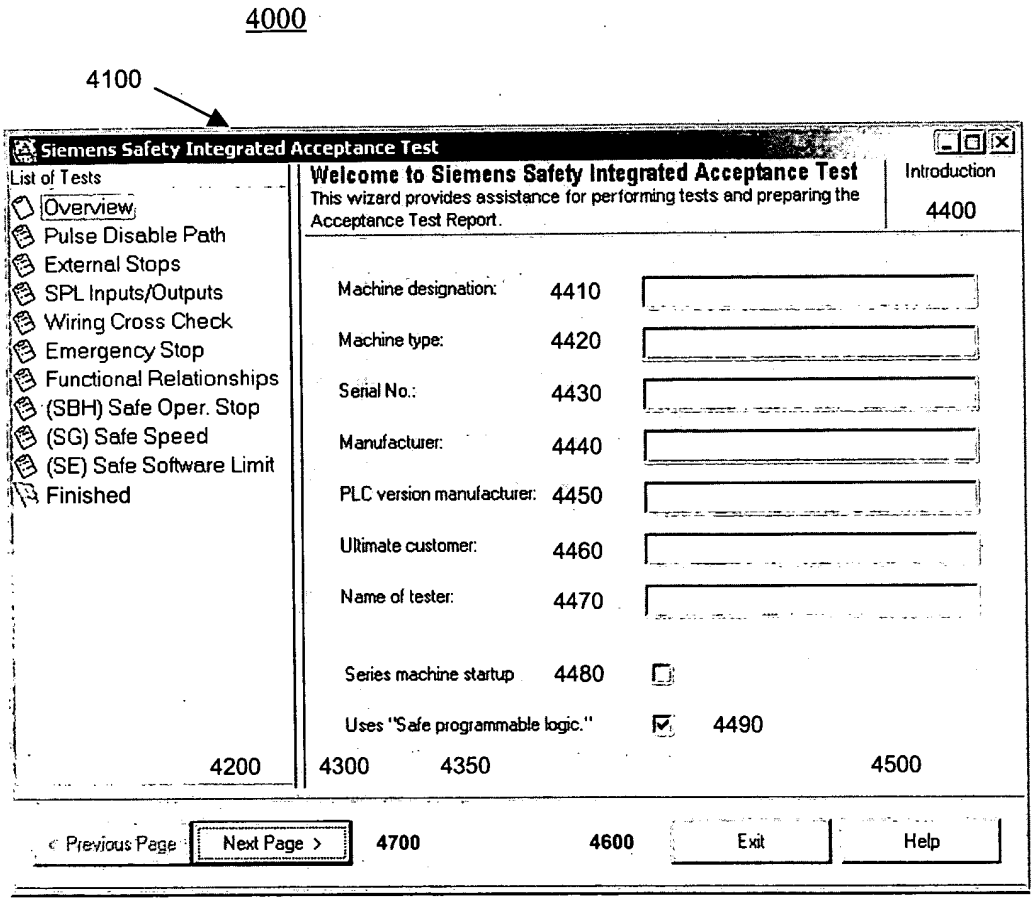


Fig. 4

4200

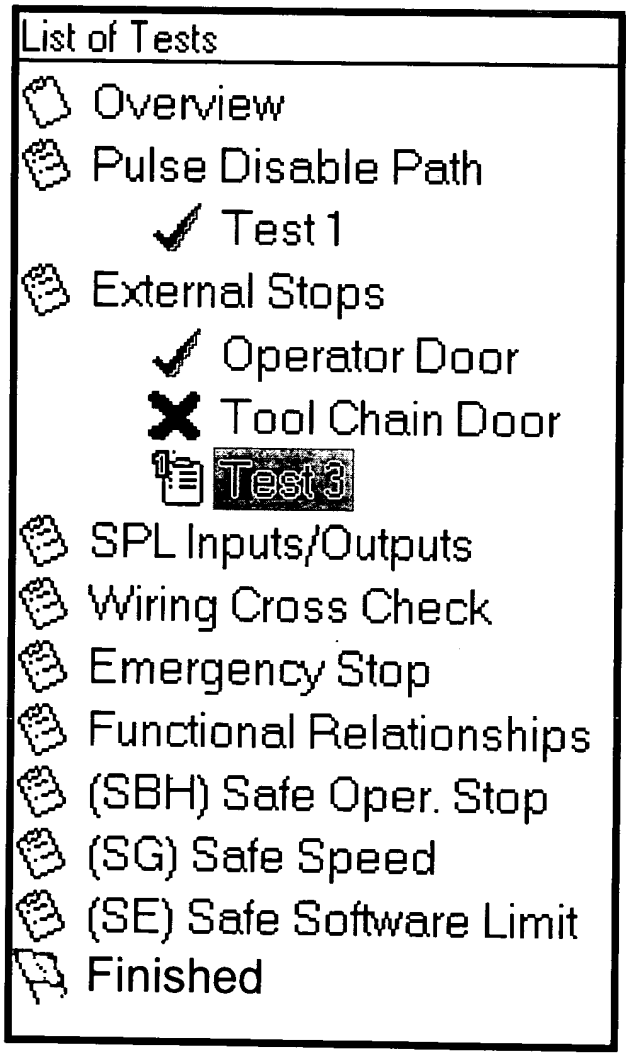

List of Tests
Overview
Pulse Disable Path
4210
Test 1
External Stops
4220
Operator Door
4230
Tool Chain Door
Test 3
SPL Inputs/Outputs
Wiring Cross Check
Emergency Stop
Functional Relationships
(SBH) Safe Oper. Stop
(SG) Safe Speed
(SE) Safe Software Limit
4290
Finished

Fig. 5

6000

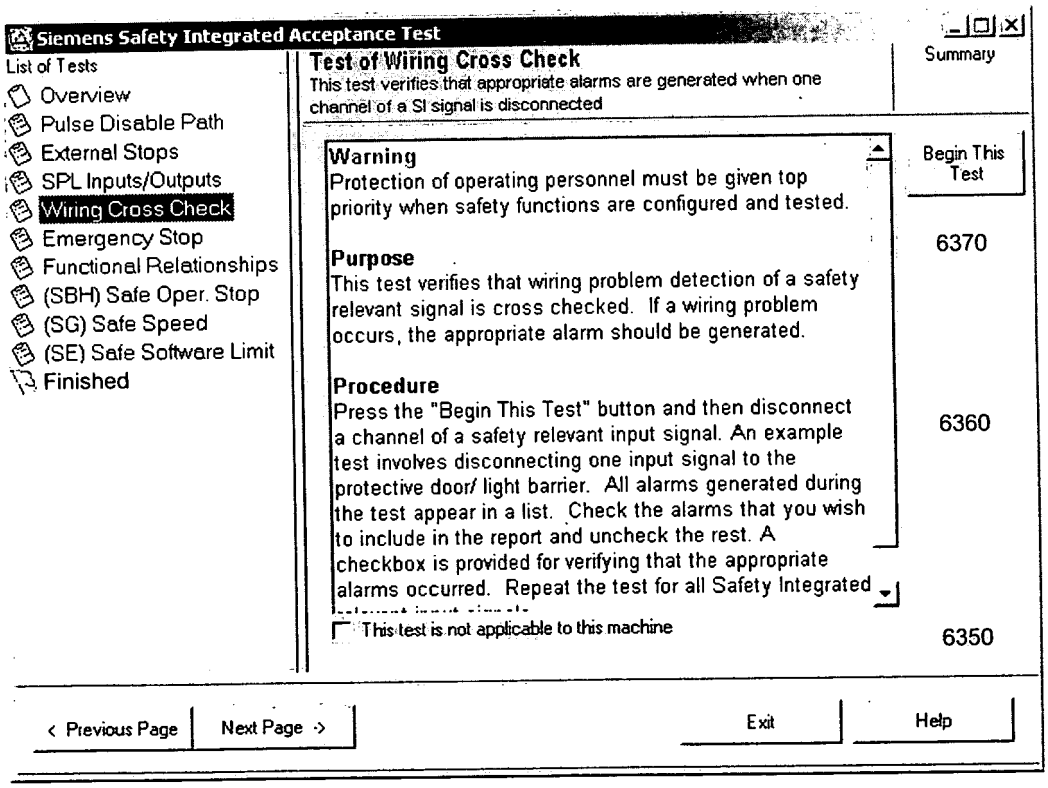

Siemens Safety Integrated Acceptance Test
List of Tests
Overview
Pulse Disable Path
External Stops
SPL Inputs/Outputs
Wiring Cross Check
Emergency Stop
Functional Relationships
(SBH) Safe Oper. Stop
(SG) Safe Speed
(SE) Safe Software Limit
Finished
Test of Wiring Cross Check
This test verifies that appropriate alarms are generated when one channel of a SI signal is disconnected
Summary
Warning
Protection of operating personnel must be given top priority when safety functions are configured and tested.
Purpose
This test verifies that wiring problem detection of a safety relevant signal is cross checked. If a wiring problem occurs, the appropriate alarm should be generated.
Procedure
Press the "Begin This Test" button and then disconnect a channel of a safety relevant input signal. An example test involves disconnecting one input signal to the protective door/ light barrier. All alarms generated during the test appear in a list. Check the alarms that you wish to include in the report and uncheck the rest. A checkbox is provided for verifying that the appropriate alarms occurred. Repeat the test for all Safety Integrated
This test is not applicable to this machine
Begin This Test
6370
6360
6350
< Previous Page
Next Page ->
Exit
Help

Fig. 6

7000

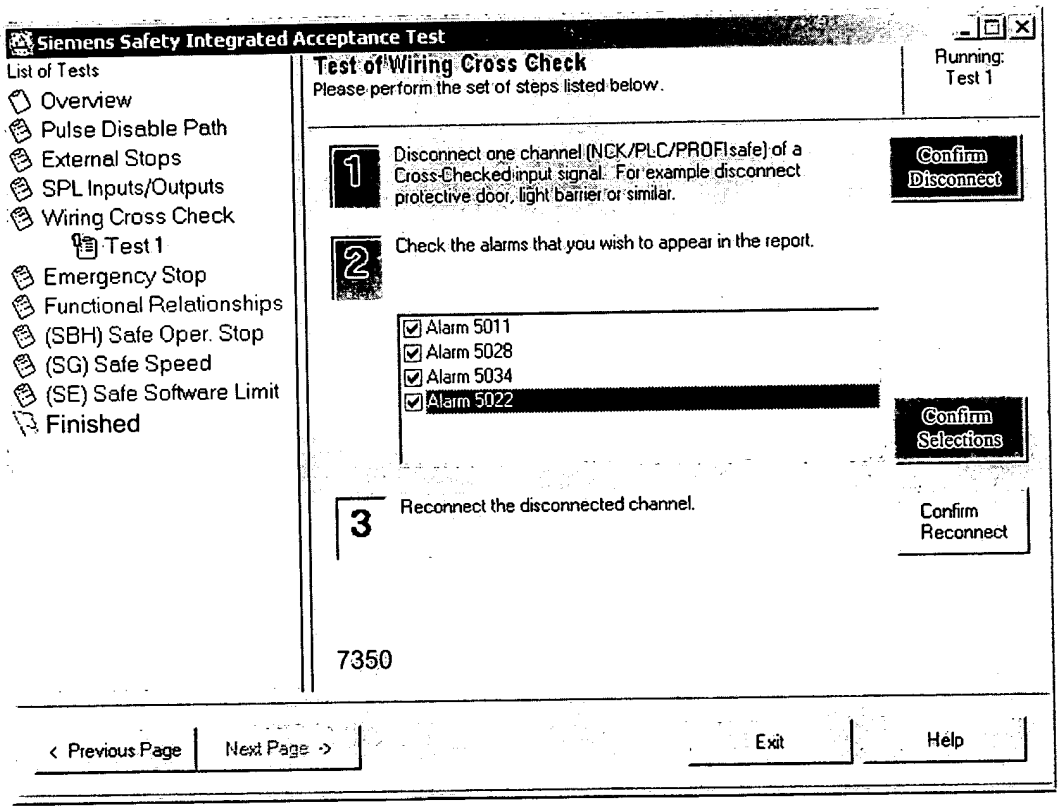
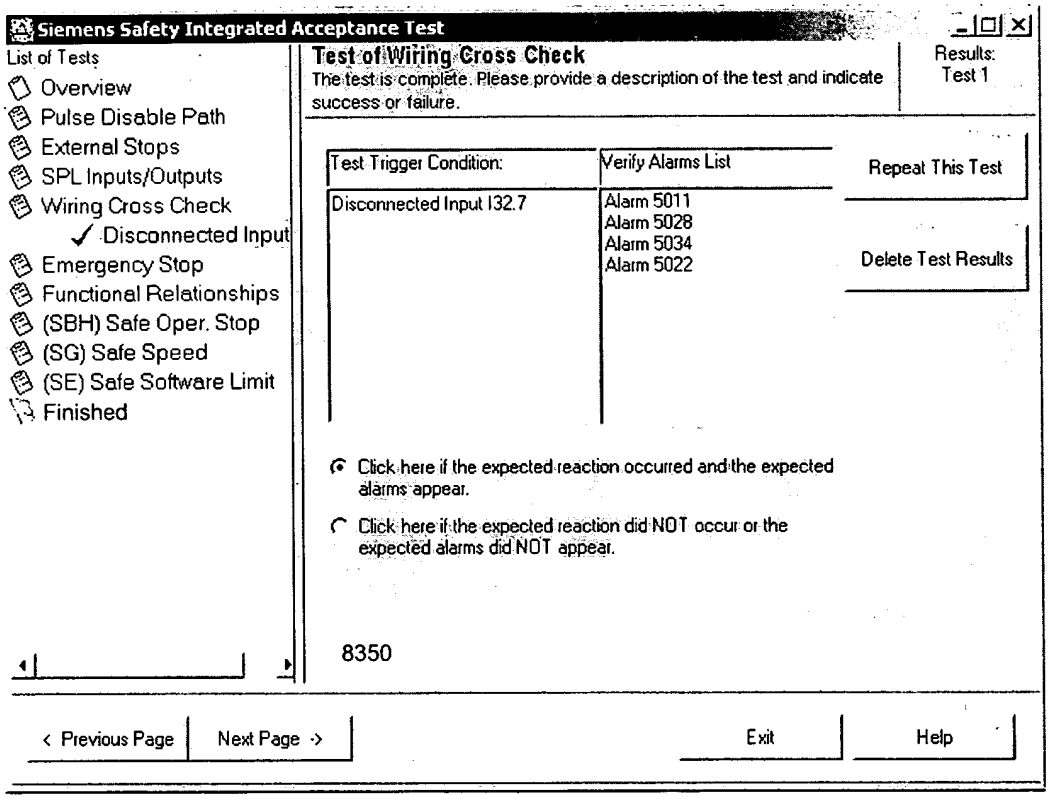

Siemens Safety Integrated Acceptance Test
List of Tests
Overview
Pulse Disable Path
External Stops
SPL Inputs/Outputs
Wiring Cross Check
Test 1
Emergency Stop
Functional Relationships
(SBH) Safe Oper. Stop
(SG) Safe Speed
(SE) Safe Software Limit
Finished
Test of Wiring Cross Check
Please perform the set of steps listed below.
Running: Test 1
1
Disconnect one channel (NCK/PLC/PROFIsafe) of a Cross-Checked input signal. For example disconnect protective door, light barrier or similar.
Confirm Disconnect
2
Check the alarms that you wish to appear in the report.
Alarm 5011
Alarm 5028
Alarm 5034
Alarm 5022
Confirm Selections
3
Reconnect the disconnected channel.
Confirm Reconnect
7350
< Previous Page
Next Page ->
Exit
Help

Fig. 7

8000


Siemens Safety Integrated Acceptance Test
List of Tests
Overview
Pulse Disable Path
External Stops
SPL Inputs/Outputs
Wiring Cross Check
Disconnected Input
Emergency Stop
Functional Relationships
(SBH) Safe Oper. Stop
(SG) Safe Speed
(SE) Safe Software Limit
Finished
Test of Wiring Cross Check
The test is complete. Please provide a description of the test and indicate success or failure.
Results: Test 1
Test Trigger Condition:
Verify Alarms List
Disconnected Input I32.7
Alarm 5011
Alarm 5028
Alarm 5034
Alarm 5022
Repeat This Test
Delete Test Results
Click here if the expected reaction occurred and the expected alarms appear.
Click here if the expected reaction did NOT occur or the expected alarms did NOT appear.
8350
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Next Page ->
Exit
Help

Fig. 8

9000

9350

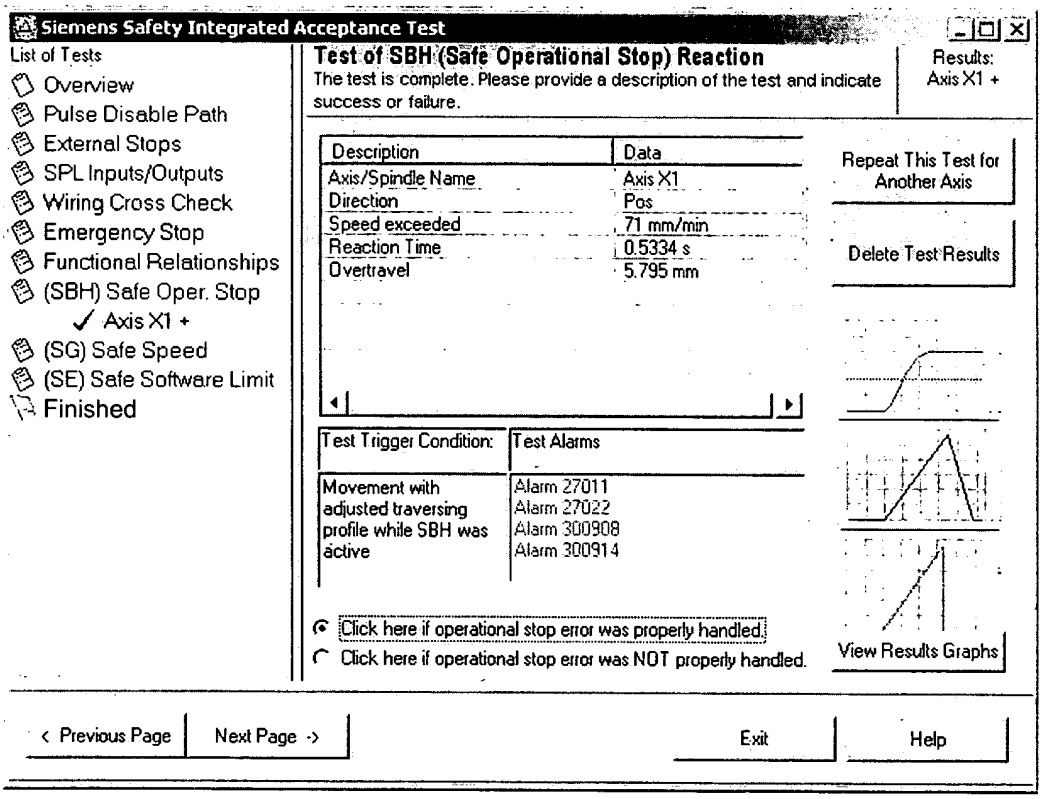

Fig. 9

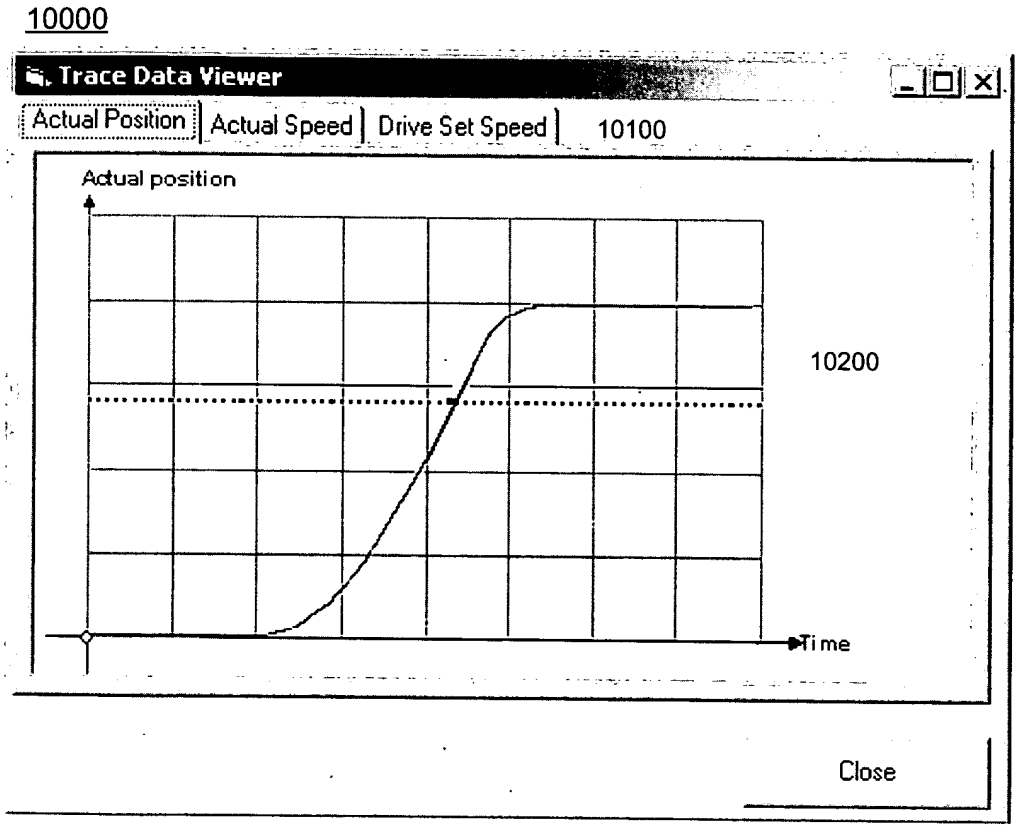
10000
Trace Data Viewer
Actual Position
Actual Speed
Drive Set Speed
10100
Actual position
10200
Time
Close

Fig. 10